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| (51) International Patent Classification ⁷ : C07K 14/81, 14/435, C12N 15/12 | A1 | (11) International Publication Number: WO 00/24779 (43) International Publication Date: 4 May 2000 (04.05.00) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> (21) International Application Number: PCT/US99/24046 (22) International Filing Date: 22 October 1999 (22.10.99) (30) Priority Data: 60/155,209 23 October 1998 (23.10.98) US <i>23 Apr 01/30 mo</i> (63) Related by Continuation (CON) of Continuation-in-Part (CIP) to Earlier Application US 60/155,209 (CIP) Filed on 23 October 1998 (23.10.98) (71) Applicant (for all designated States except US): INCYTE PHARMACEUTICALS, INC. [US/US]; 3174 Porter Drive, Palo Alto, CA 94304 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): TANG, Y., Tom [CN/US]; 4230 Ranwick Court, San Jose, CA 95118 (US). CORLEY, Neil C. [US/US]; 1240 Dale Avenue #30, Mountain View, CA 94040 (US). QUEGLER, Karl, J. [CH/US]; 1048 Oakland Avenue, Menlo Park, CA 94025 (US). PATTERSON, Chandra [US/US]; 490 Sherwood Way #1, Menlo Park, CA 94025 (US). </div> <div style="width: 48%; vertical-align: top;"> (74) Agents: BILLINGS, Lucy, J. et al.; Incyte Pharmaceuticals, Inc., 3174 Porter Drive, Palo Alto, CA 94304 (US). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> </div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (54) Title: LYSINE-RICH STATHERIN PROTEIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="text-align: right;">9</td> <td style="text-align: right;">18</td> <td style="text-align: right;">27</td> <td style="text-align: right;">36</td> <td style="text-align: right;">45</td> <td style="text-align: right;">54</td> </tr> <tr> <td>5' CTA</td> <td>TGT TTT TAG AAT CAA AGA TGA ACC GGT AAG CTG TCT CAT GTA CCA AAC GTG</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">63</td> <td style="text-align: right;">72</td> <td style="text-align: right;">81</td> <td style="text-align: right;">90</td> <td style="text-align: right;">99</td> <td style="text-align: right;">108</td> </tr> <tr> <td>AAA</td> <td>TTT ACA GTG TTT ACA AAT GTC TGG AAT TTT GCA CTG CCA TAG GGA ATG TTA</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">117</td> <td style="text-align: right;">126</td> <td style="text-align: right;">135</td> <td style="text-align: right;">144</td> <td style="text-align: right;">153</td> <td style="text-align: right;">162</td> </tr> <tr> <td>AGG</td> <td>TTA CTT GGC TGG AAT TTA TCA GAC TTG TGA GTA AAC AAG TTG AAG TTT AGC</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">171</td> <td style="text-align: right;">180</td> <td style="text-align: right;">189</td> <td style="text-align: right;">198</td> <td style="text-align: right;">207</td> <td style="text-align: right;">216</td> </tr> <tr> <td>AGA</td> <td>TGA GGG GGA ATA TTG AGG CCC CTA AGG CTA AAC AAA ATA ATC AGT ATC TGA</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">225</td> <td style="text-align: right;">234</td> <td style="text-align: right;">243</td> <td style="text-align: right;">252</td> <td style="text-align: right;">261</td> <td style="text-align: right;">270</td> </tr> <tr> <td>GAT</td> <td>AGT GGC TAA TGT GGC TCC CCA GGC CTA ATT TGG GAA CAG TTT TTC CTG ATT</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">279</td> <td style="text-align: right;">288</td> <td style="text-align: right;">297</td> <td style="text-align: right;">306</td> <td style="text-align: right;">315</td> <td style="text-align: right;">324</td> </tr> <tr> <td>GCT</td> <td>TTG AGA AGT ACT TTC TTT TGA CAG AAA TTT TCA TTC TGC TTG CCA TTG CTA</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">333</td> <td style="text-align: right;">342</td> <td style="text-align: right;">351</td> <td style="text-align: right;">360</td> <td style="text-align: right;">369</td> <td style="text-align: right;">378</td> </tr> <tr> <td>TAT</td> <td>TCT CCC TTT ATA GGA GCC ATT GGA TTT CTT TCC TTT TGT GGG AAA TGT CCC</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">387</td> <td style="text-align: right;">396</td> <td style="text-align: right;">405</td> <td style="text-align: right;">414</td> <td style="text-align: right;">423</td> <td style="text-align: right;">432</td> </tr> <tr> <td>ATT</td> <td>AGC ATT TTC AGA TCT TTT GAT GTG CAC TAA TGC CAT TAT TGG TAA TGC CGT</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">441</td> <td style="text-align: right;">450</td> <td style="text-align: right;">459</td> <td style="text-align: right;">468</td> <td style="text-align: right;">477</td> <td style="text-align: right;">486</td> </tr> <tr> <td>TAT</td> <td>TGG TGA ATA CAG CAT AGT TAA ATA AAC TGT TAC AGT AAA TCT ACA CTT GGA</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | | 9 | 18 | 27 | 36 | 45 | 54 | 5' CTA | TGT TTT TAG AAT CAA AGA TGA ACC GGT AAG CTG TCT CAT GTA CCA AAC GTG | | | | | 63 | 72 | 81 | 90 | 99 | 108 | AAA | TTT ACA GTG TTT ACA AAT GTC TGG AAT TTT GCA CTG CCA TAG GGA ATG TTA | | | | | 117 | 126 | 135 | 144 | 153 | 162 | AGG | TTA CTT GGC TGG AAT TTA TCA GAC TTG TGA GTA AAC AAG TTG AAG TTT AGC | | | | | 171 | 180 | 189 | 198 | 207 | 216 | AGA | TGA GGG GGA ATA TTG AGG CCC CTA AGG CTA AAC AAA ATA ATC AGT ATC TGA | | | | | 225 | 234 | 243 | 252 | 261 | 270 | GAT | AGT GGC TAA TGT GGC TCC CCA GGC CTA ATT TGG GAA CAG TTT TTC CTG ATT | | | | | 279 | 288 | 297 | 306 | 315 | 324 | GCT | TTG AGA AGT ACT TTC TTT TGA CAG AAA TTT TCA TTC TGC TTG CCA TTG CTA | | | | | 333 | 342 | 351 | 360 | 369 | 378 | TAT | TCT CCC TTT ATA GGA GCC ATT GGA TTT CTT TCC TTT TGT GGG AAA TGT CCC | | | | | 387 | 396 | 405 | 414 | 423 | 432 | ATT | AGC ATT TTC AGA TCT TTT GAT GTG CAC TAA TGC CAT TAT TGG TAA TGC CGT | | | | | 441 | 450 | 459 | 468 | 477 | 486 | TAT | TGG TGA ATA CAG CAT AGT TAA ATA AAC TGT TAC AGT AAA TCT ACA CTT GGA | | | | |
| 9 | 18 | 27 | 36 | 45 | 54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 63 | 72 | 81 | 90 | 99 | 108 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 333 | 342 | 351 | 360 | 369 | 378 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 387 | 396 | 405 | 414 | 423 | 432 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATT | AGC ATT TTC AGA TCT TTT GAT GTG CAC TAA TGC CAT TAT TGG TAA TGC CGT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 441 | 450 | 459 | 468 | 477 | 486 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TAT | TGG TGA ATA CAG CAT AGT TAA ATA AAC TGT TAC AGT AAA TCT ACA CTT GGA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (57) Abstract <p>The invention provides a human lysine-rich statherin protein (LRSP) and polynucleotides which identify and encode LRSP. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with expression of LRSP.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |